

# ISO 7711-1:2021-11 (E)

## Dentistry - Diamond rotary instruments - Part 1: General requirements

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Symbols .....	3
5	Requirements .....	3
5.1	Material .....	3
5.1.1	Blank .....	3
5.1.2	Shank hardness .....	3
5.1.3	Working part .....	3
5.2	Designation, colour code, grit sizes .....	3
5.2.1	Designation .....	3
5.2.2	Colour code .....	3
5.2.3	Grit size distribution .....	4
5.2.4	Grit sizes .....	4
5.3	Dimensions .....	4
5.3.1	Designated dimensions of overall length .....	4
5.3.2	Designated dimensions of the shank .....	6
5.3.3	Dimensions of working part .....	6
5.4	Bending test to verify the instrument strength .....	7
5.4.1	General .....	7
5.4.2	Effect on run-out .....	7
5.4.3	Breaking test .....	7
5.5	Resistance to processing and reprocessing .....	8
6	Measurement and test methods .....	8
6.1	Sampling .....	8
6.2	Testing of the dimensions .....	8
6.3	Testing of the run-out .....	9
6.4	Testing of resistance to processing and reprocessing .....	9
6.4.1	Sampling .....	9
6.4.2	Equipment .....	9
6.4.3	Reagent .....	9
6.4.4	Preparation of the test piece .....	9
6.4.5	Procedure .....	9
6.5	Visual inspection .....	9
7	Marking and packaging .....	10
7.1	Marking on diamond rotary instruments .....	10
7.2	Labelling on the package .....	10
8	Instructions for use, processing and reprocessing .....	10
Bibliography .....		11